

NPIC/R-498/64

June 1964

PHOTOGRAPHIC INTERPRETATION REPORT

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OAK - PART II
MISSION 1007-1
20-23 JUNE 1964



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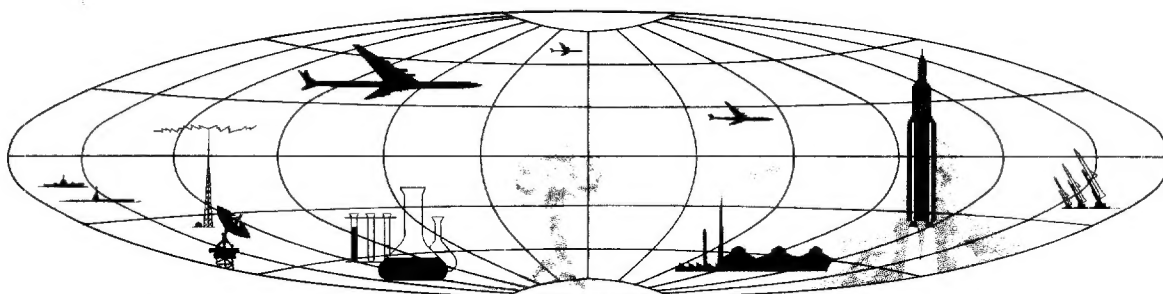
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OAK-PART II

MISSION 1007-1

PREFACE

THIS IS THE SECOND AND LAST DAILY OAK REPORT ON MISSION 1007-1 DEALING WITH THE HIGHEST PRIORITY INTELLIGENCE ITEMS APPEARING IN THE COMOR TARGET LIST. THIS REPORT, COVERING THE OAK REPORTING PERIOD FROM 1500 HOURS 28 JUNE 1964 TO 1700 HOURS, 29 JUNE 1964 PRESENTS INFORMATION ONLY ON THOSE COMOR TARGETS OBSERVED ON THE PHOTOGRAPHY. COMOR TARGETS OBSERVED ON MISSION 1007-1 ARE LISTED IN THE INDEX OF THIS REPORT.

TARGETS ARE ARRANGED IN THE OAK BY SUBJECT, AND WITHIN EACH SUBJECT BY COMOR TARGET NUMBER. TARGETS OF OPPORTUNITY OBSERVED DURING THE OAK REPORTING PERIOD ARE LISTED NUMERICALLY UNDER THE APPROPRIATE SUBJECT AFTER THE LISTING OF COMOR TARGETS. LOCATION OF TARGETS IN THIS REPORT IS INDICATED BY THE COUNTRY CODE PRECEDING THE COORDINATES.

SELECTED PHOTOGRAPHIC REFERENCES FOR EACH TARGET OBSERVED AND REQUESTED FOLLOW THE DESCRIPTION OF THE TARGET. PASS NUMBERS ARE SUFFIXED WITH EITHER AN A FOR ASCENDING (SOUTH-TO-NORTH) OR D FOR DESCENDING (NORTH-TO-SOUTH). FRAMES ARE INDICATED BY THE LETTERS FR. THE LETTER F PRECEDING FRAME NUMBERS INDICATES THE FORWARD CAMERA AND THE LETTER A PRECEDING FRAME NUMBERS INDICATES THE AFT CAMERA. UNIVERSAL REFERENCE GRID (X-Y) COORDINATES ARE GIVEN IN PARENTHESIS AFTER THE FRAME TO WHICH THEY APPLY. THIS GRID IS IDENTIFIED AS UNIVERSAL GRID NO 1, FEB 64. SYMBOLS INDICATING CONDITIONS WHICH AFFECT THE APPEARANCE OF THE TARGET ON THE PHOTOGRAPHY ARE AS FOLLOWS -- C (CLEAR), SC (SCATTERED CLOUD COVER), HC (HEAVY CLOUD COVER), H (HAZE), CS (CLOUD SHADOW), SD (SEMI DARKNESS), O (OBLIQUITY), S (SNOW), PQ (POOR IMAGE QUALITY).

OAK RECIPIENTS ARE CAUTIONED THAT THE INITIAL SCAN OF THE PHOTOGRAPHY FROM MISSION 1007-1 IS BEING ACCOMPLISHED IN A SHORT TIME AND OFTEN WITHOUT THE AID OF PRECISE ANALYTICAL AND MENSURAL EQUIPMENT COMMONLY EMPLOYED IN DETAILED PHOTOGRAPHIC ANALYSIS. CONSEQUENTLY, ALTHOUGH THE INFORMATION PRESENTED HEREIN IS ESSENTIALLY ACCURATE, FUTURE DETAILED ANALYSIS MAY SOMEWHAT ALTER PORTIONS OF THE INFORMATION.

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Highlights

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HIGHLIGHTS

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1. YOSHKAR-OLA ICBM COMPLEX ([REDACTED])

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS NEWLY IDENTIFIED. IT CONTAINS A SUPPORT AREA, PROBABLE CONTROL BUILDING, AND A PROBABLE FISHBONE ANTENNA ARRAY.

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2. KOZELSK ICBM COMPLEX ([REDACTED])

LAUNCH AREA C IS CONSIDERED ABANDONED AND IS DROPPED FROM THE ICBM OB.

3. MISSILE BONUSES

FIXED FIELD MRBM LAUNCH SITES ARE NEWLY IDENTIFIED 3.7 NM SW OF YAZLOVCHIK, 4 NM SE OF VASILISHKI, AND 4 NM SSE OF SHCHITNO.

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4. MOSCOW SUSPECT ABM AREA ([REDACTED])

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE PHOTOGRAPHY OVER 85 PERCENT OF THE SEARCH AREA. NO NEW SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS ARE OBSERVED. APPROXIMATELY 75 PERCENT OF THE HERRINGBONE LAUNCH SITES SHOW SIGNS OF ACTIVITY.

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6. MOSCOW, SUSPECT AMM PHASED ARRAY RADAR

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME.

7. TA-TUNG VLF ANTENNA BONUS

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS LOCATED 8 NM SOUTH OF TA-TUNG.

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STATUS OF COMOR TARGET READOUT

A TOTAL OF 140 COMOR TARGETS WERE OBSERVED IN THE OAK REPORTING PERIOD AND ARE COVERED IN PART I AND PART II.

IN ADDITION, A TOTAL OF 9 BONUS TARGETS ARE REPORTED.

TABULAR SUMMARY

A RECAPITULATION OF SIGNIFICANT ACTIVITY IS PRESENTED IN THE FOLLOWING TABLES ON SUCCEEDING PAGES.

TABLE 1 -- SOVIET ICBM DEPLOYMENT
TABLE 2 -- SOVIET MRBM AND IRBM DEPLOYMENT
TABLE 3 -- SAM AND AMM DEPLOYMENT
TABLE 4 -- NUCLEAR ENERGY ACTIVITY
TABLE 5 -- AIRCRAFT ACTIVITY
TABLE 6 -- SUBMARINE ACTIVITY
TABLE 7 -- DATE AND TIME OF PHOTOGRAPHIC PASSES

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Table 1. Soviet ICBM Deployment

Complex	Launch Area											Total Soft Sites	Total Hard Sites	Total Launch Positions	Last Effective Coverage
	A	B	C	D	E	F	G	H	I	J	K				
Drovyanaya	(C)	C	C	(C)	M	M						3	3	15	
Gladkaya	C	C	E	M	E							2	3	13	
Itatka	C	C	C									3	--	6	
Kostroma	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(M)				6	2	18	
Kozelsk	(C)	(C)		(C)	(C)	(L)						3	2	12	
Novosibirsk	C	C	(M)	C	C							3	2	12	
Olovyannaya	(C)	M	(M)									--	3	9	
Omsk	C	E										--	2	6	
Perm	C	C	C	C	C	M						5	1	13	
Plesetsk*	C	C	C	C	C							8	1	15	
Shadrinsk	(C)	(C)	(L)									--	3	9	
Svobodnyy	(C)	(C)	(C)	(C)	(C)	(C)	(L)	(C)				7	1	17	
Teykovo	(C)	(C)	(C)	(C)	(C)	(C)	E					7	--	14	
Tyumen	(C)	M	(C)	E (poss)				/				3	1 (poss)	9 (3 poss)	
Verkhnyaya Salda	C	C	C	C	C	C	C	C	C			7	2	20	
Yedrovo	C	C	M	C	C	C	(M)	M	C			6	3	21	
Yoshkar-Ola	(C)	(C)	(C)	(C)	(C)	(C)						6	--	12	
Yurya	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(C)	(L)	8	3	25	
Zhangiz Tobe	E	E											2	2	
Deployment Total												77	34 (1 poss)	248 (3 poss)	
Tyuratam MTC	(C)	C	C	L	(C)	(C)	(M)	C	M	(M)	(M)	13	10 (4 poss)	33 (4 poss)	
Grand Total												90	44 (5 Poss)	281 (7 Poss)	

*Includes Launch Points I-IV, complete
Construction Status (C-complete, L-late, M-mid, E-early)



Sites covered by current mission



Newly identified sites

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Table 2. Soviet MRBM and IRBM Deployment

Geographic Area	Soft MRBM Launch Areas	Soft IRBM Launch Areas	Hard MRBM Launch Areas	Hard IRBM Launch Areas	Total Launch Areas	Total Launch Positions
Western	121	11	18	11	161	633
Caucasus	3	--	2	3	8	29
Central Asia	2	3	1	5	11	39
Far Eastern	11	1	--	2	14	54
Totals	137	15	21	21	194	755

Totals do not include 28 fixed field-type sites with total of 95 clearings and one possible launch facility at Sovetskaya Gavan.

Table 3. SAM and AMM Deployment

	Country													Totals
	USSR	Albania	Bulgaria	Czechoslovakia	Hungary	Poland	Rumania	China	North Korea	Indonesia	Egypt	Cuba	India	
SAM sites														
SA-0	15	--	--	--	--	--	--	--	--	--	--	--	--	15
SA-1	56	--	--	--	--	--	--	--	--	--	--	--	--	56
SA-2	872*	1	18	21	42	11	22	12	15	2	4	14*	24**	1,059
SA-3	88	--	--	--	--	--	--	--	--	--	--	--	--	88
SAM support facilities	178	1	2	4	3	2	3	3	--	1	--	3	6	206
Probable AMM complexes	3	--	--	--	--	--	--	--	--	--	--	--	--	3

*Does not include 4 alternate sites

**Does not include 22 abandoned sites.

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Table 5. Aircraft Activity

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Airfield	Last Coverage	Previous Significant Aircraft Count												Observed this Mission													
		BISON	BEAR	BADGER	BLUNDER	BOUNDER	MANDRAGE	MALLOW	FIDDLER	FITTER	FISBED	FISDOT	FISDRAV/BREWER	TOTALS	BISON	BEAR	BADGER	BLUNDER	BOUNDER	MANDRAGE	MALLOW	FIDDLER	FITTER	FISBED	FISDOT	FISDRAV/BREWER	TOTALS
Akhutinsk/Vladimirovka		2	27 (Prob)					2 (Prob)					81														
Alekseyevka															35											35	
Anadyr/Leninka																											
Anisovo Gorodishche																											
Arkhangelsk/Kholm*																											
Artem North																											
Baranovichi*			20	18									38		24	8										82	
Borzya			7										7		0											9	
Belaya Tsarkov		4	17										21														
Bobruysk*			27										37														
Briyani*																											
Bykhov*			79 (Prob)										79		59											59	
Chapelovka*		41	6										47														
Dolon*		39	6										45	42 (B/B)												42	
Donuslav Lako							14 (Prob)						14														
Engels*		33	11										44														
Gomel Pribytki			21	51									72		11	36										47	
Kalinin*			3 (Prob)										3		3											3	
Kaliningrad/Provoron			8	20									28														
Komsomolsk Plt 126								20 (Prob)					20														
Kazan A/C Plt 22			7 (Poss)	14									21		8	15										23	
Mal Yavr																											
Melitopol			8									2	10														
Minsk/Machulishche*																											
Mitgorod			14										14		26	2 (Prob)	1 (Poss)									26	
Moscow/Ramenskoye			6 (Poss)	1									7	8 (Prob)	4 (Prob)	6 (Poss)	1 (Poss)									19	
Mozdok*																											
Nezhin																											
Nikolayev/Kulbakina			40										40													28	
Okiyabrskoye																											
Olenegorsk			14										14		10											10	
Orsha Southwest*			27										27		58											58	
Ostrov Gorokhovka			4										4		31											31	
Petropavlovsk/Yolizovo																											
Poltava*																											
Priluki*			23 (Prob)										23		26											26	
Romanovka West			20						4				24														
Ryazan/Dyagilevo		4	45 (Prob)										49														
Saki																											
Sarabuz			18										18														
Soveromorsk			2										2														
Stalinsk*		8 (B)	16										24	26 (B/B)												26	
Soltay*																											
Spasak Dalsiy East			31 (Prob)										31													28	
Stryy*			20										20														
Tartu																											
Ukraine*		42 (B/B)	23										65	41	28											69	
Ussuriysk Vozdvizhonka*			22					16					38														
Zhitomir/Skonorokhi*			1 (Prob)										1														
TOTALS		41	100	560	93	1	14	38	4	2	2	900	10	1	384	68	1									571	

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Missiles

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MISSILES

[] YOSHKAR-OLA ICBM COMPLEX UR 5634N 04803E

THE COMPLEX WAS COVERED BY GOOD QUALITY,
CLEAR PHOTOGRAPHY.

A PROBABLE COMMUNICATIONS-ASSOCIATED FACILITY IS
NEWLY IDENTIFIED ON THE NORTH SIDE OF THE COMPLEX
MAIN ROAD APPROXIMATELY 2 NM NORTH OF THE
TRANSFER POINT. IT CONTAINS A SUPPORT AREA WITH
ONE LARGE AND SEVERAL SMALL BUILDINGS, A
PROBABLE CONTROL BUILDING UNDER CONSTRUCTION
AT THE TERMINUS OF THE ACCESS ROAD, AND A
PROBABLE FISHBONE ANTENNA ARRAY IN A CLEARING SE
OF THE SUPPORT AREA.

25X1D

CONSTRUCTION ACTIVITY OF A SUPPORT-TYPE FACILITY
IS OBSERVED ON THE SOUTH SIDE OF THE COMPLEX
MAIN ROAD BETWEEN LAUNCH AREAS C (SITE 3) AND
D (SITE 4). THIS ACTIVITY, NEW SINCE MISSION []
CONTAINS 3 LARGE BUILDINGS, 6 SMALL BUILDINGS,
AND 6 OTHER BUILDINGS UNDER CONSTRUCTION.
NO SIGNIFICANT CHANGE SINCE MISSION [] AT THE
COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR
LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3)
AND D (SITE 4). LAUNCH AREA F (SITE 6) SHOWS
NO CHANGE SINCE MISSION [] LAUNCH AREA E
(SITE 5) IS COMPLETE.

25X1D

25X1D

NO ABM ACTIVITY IDENTIFIED WITHIN A 50-NM RADIUS.

25X1D



25X1A

[] DROVYANAYA ICBM COMPLEX UR 5132N 11301E

THE COMPLEX SUPPORT ACTIVITY, TRANSFER POINT, LAUNCH
AREAS B (SITE 2), C (SITE 4), E (SITE 5) AND F
(SITE 6) AND THE UNIDENTIFIED AREA NEAR E ARE CLOUD

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25X1

COVERED. LAUNCH AREAS A (SITE 1) AND D (SITE 3) AND THE SITE SUPPORT AND RIM FACILITIES OF LAUNCH AREA B -- IDENTIFICATION ONLY.

25X1D NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS; WHICH IS 90 PERCENT CLOUD COVERED.

25X1A

KOSTROMA ICBM COMPLEX UR 5746N 04101E

25X1D

COMPLEX IS COVERED ON GOOD QUALITY STEREO PHOTOGRAPHY. NO SIGNIFICANT CHANGE NOTED SINCE MISSION [] IN THE COMPLEX SUPPORT FACILITY, THE RAIL-TO-ROAD TRANSFER POINT, THE TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), C (SITE 3), AND D (SITE 4), THE TYPE IID AREAS F (SITE 6), G (SITE 7), AND THE TYPE IIIA AREAS E (SITE 5) AND H (SITE 8). NO ABM ACTIVITY OBSERVED WITHIN 50-NM RADIUS.

25X1D

25X1A

TEYKOVO ICBM COMPLEX UR 5652N 04035E

THE COMPLEX IS COVERED BY GOOD QUALITY STEREO PHOTOGRAPHY EXCEPT FOR LAUNCH AREA G (SITE 7), WHICH WAS NOT COVERED, AND LAUNCH AREA E (SITE 5), WHICH WAS COVERED BY POOR QUALITY PHOTOGRAPHY. NO SIGNIFICANT CHANGES OBSERVED IN THE COMPLEX SUPPORT FACILITY, TYPE IIB LAUNCH AREAS A (SITE 1), B (SITE 2), AND C (SITE 3) OR TYPE IID LAUNCH AREAS D (SITE 4), E (SITE 5), F (SITE 6). SEVERAL BUILDINGS ARE APPARENT IMMEDIATELY EAST OF THE RAIL-TO-ROAD TRANSFER POINT. THESE BUILDINGS WERE PRESENT ON MISSION [] BUT NOT ON MISSION []

25X1D

25X1D

A SMALL AREA OF NEW CONSTRUCTION IS OBSERVED SOUTH OF THE COMPLEX MAIN ROAD BETWEEN LAUNCH AREAS B AND D. AN ACCESS ROAD LEADS TO A SMALL GROUP OF BUILDINGS PRESENT ON MISSION [] THE AREA HAS BEEN ENLARGED SINCE MISSION []

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25X1D NO ABM ACTIVITY OBSERVED IN EASTERN HALF OF SEARCH AREA. WESTERN HALF NOT COVERED.

25X1A

[REDACTED] YEDROVO ICBM COMPLEX UR 5751N 03341E

LAUNCH AREA G (SITE 7) -- IDENTIFICATION ONLY. REMAINDER OF COMPLEX NOT COVERED.

25X1D

NO ABM ACTIVITY OBSERVED IN CLOUD-FREE AREAS WITHIN 50-NM RADIUS. EASTERN HALF OF SEARCH AREA NOT COVERED.

25X1A

[REDACTED] KOZELSK ICBM COMPLEX UR 5357N 03548E

25X1D

THE COMPLEX IS COVERED BY GOOD QUALITY, CLEAR PHOTOGRAPHY. NO SIGNIFICANT CHANGES SINCE MISSION [REDACTED] ARE APPARENT AT THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, OR TYPE IIC LAUNCH AREAS A (SITE 3), B (SITE 2), D (SITE 4), AND TYPE IIIB LAUNCH AREA F (SITE 6). LAUNCH AREA E (SITE 5), A TYPE IIIB, IS COMPLETE WITH THE PATTERN OF THE ELECTRONICS FACILITY APPARENT. LAUNCH AREA C (SITE 1) HAS SHOWN NO CONSTRUCTION PROGRESS SINCE MISSION [REDACTED] AND IS CONSIDERED ABANDONED AND WILL BE DROPPED FROM THE ICBM OB.

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NO ABM ACTIVITY OBSERVED IN THE EASTERN HALF OF A 50-NM RADIUS. WESTERN HALF OF SEARCH AREA NOT COVERED.

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[REDACTED] OLOVYANNAYA ICBM COMPLEX UR 5048N 11550E

THE COMPLEX IS OBSERVED THROUGH SCATTERED CLOUDS AND HAZE. THE COMPLEX SUPPORT FACILITY, TRANSFER POINT, AND TYPE IIIA LAUNCH AREAS A (SITE 1) AND C (SITE 3) ARE IDENTIFICATION ONLY. LAUNCH AREA B (SITE 2) IS CLOUD COVERED.

NO ABM ACTIVITY OBSERVED IN THE CLOUD-FREE PORTIONS WITHIN A 50-NM RADIUS.

25X1D

25X1A

[REDACTED] SLEDYUKI MRBM LAUNCH SITE UR 5341N 03020E

25X1D

NO APPARENT CHANGE SINCE MISSION [REDACTED]

NO ADDITIONAL IRBM/MRBM FACILITIES OBSERVED WITHIN 25-NM RADIUS. AREA CAN BE NEGATED.

25X1D

25X1A

[REDACTED] BORKHOV MRBM LAUNCH SITE I UR 5218N 03043E

NO HARD IRBM SITE OBSERVED WITHIN A 25-NM RADIUS ON CLEAR PHOTOGRAPHY. AREA CAN BE NEGATED.

25X1D

25X1A

[REDACTED] KARA-BABAU IRBM LAUNCH SITE 2 UR 4431N 07758E

25X1D

NO APPARENT CHANGE SINCE MISSION [REDACTED] TWO OF THE 3 SILOS ARE OPEN.

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ZHITOMIR MRBM LAUNCH SITE 1 UR 5004N 02816E

NO NEW SSM ACTIVITY OBSERVED IN CLOUD-FREE PORTIONS OF SEARCH AREA. ONLY WESTERN HALF OF SEARCH AREA COVERED. HEAVY CLOUDS PRECLUDE NEGATION.

25X1D

25X1A

KOZHANOVICHI MRBM LAUNCH SITE 1 UR 5210N 02751E

NO NEW SSM ACTIVITY OBSERVED WITHIN 25-NM RADIUS. AREA CANNOT BE NEGATED.

25X1D

25X1A

KURDZHIPS KAYA MRBM LAUNCH SITE UR 4431N 04000E

NO ADDITIONAL MRBM LAUNCH SITE OBSERVED WITHIN A 25-NM RADIUS.

AREA CAN BE NEGATED.

25X1D

25X1A

RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE UR 5104N 02807E

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

25X1D

25X1A

SOKAL MRBM LAUNCH SITE 3 UR 5020N 02426E

IDENTIFICATION ONLY.

25X1D

25X1A

REDKING MRBM LAUNCH SITE UR 5724N 02826E

25X9

THE LAUNCH SITE IS COMPLETE AND A FACILITY IS UNDER CONSTRUCTION NEAR THE SITE SUPPORT FACILITY.

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SHIRVANSKAYA MRBM LAUNCH SITE UR 4425N 03954E

NO NUCLEAR WARHEAD FACILITY OR ELECTRONICS FACILITY
OBSERVED IN ASSOCIATION WITH THE HARD SITE. A
COMMUNICATIONS FACILITY IS UNDER CONSTRUCTION
A FEW MILES EAST OF THE TULSKAYA FIXED FIELD
SITE. NO ADDITIONAL MRBM LAUNCH SITES OBSERVED
WITHIN A 25-NM RADIUS. AREA CAN BE NEGATED.

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25X1A

KARA-BABAU IRBM LAUNCH SITE 3 UR 4431N 07743E

LAUNCH SITE 3 IS COMPLETE.

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25X1D NO APPARENT CHANGE SINCE MISSION

25X1A

KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR UR 4835N 04545E

25X9

POOR QUALITY COVERAGE PERMITS IDENTIFICATION ONLY
ON THE FOLLOWING PORTIONS OF THE SAM FACILITIES --
NEW ACTIVITY NW OF R&D LAUNCH AREA, SA-1
HERRINGBONE LAUNCH AREA, SAM HOUSING AND SUPPORT
AREA, SAM HANDLING AND CHECKOUT
AREA, SAM MISSILE CHECKOUT AND STORAGE AREA,
ELECTRONICS SITE, KAPUSTIN YAR AIRFIELD, SAM
MARSHALLING AREA, AND SAM BASE SUPPORT COMPLEX.

25X1D

REMAINDER OF TEST CENTER IS NOT COVERED.

25X1A

SARY-SHAGAN ANTIMISSILE TEST CENTER UR 4602N 07334E

PORTIONS OF THE TEST CENTER ARE OBSERVED THROUGH
HEAVY TO SCATTERED CLOUDS ON GENERALLY FAIR TO
GOOD QUALITY PHOTOGRAPHY. FACILITIES COVERED

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25X1D

IN WHOLE OR IN PART INCLUDE THE MAIN HOUSING COMPLEX, THE HEN HOUSE ANTENNA, THE HEN ROOST ANTENNAS, THE PRIMARY AIRFIELD AND LONG DIRT STRIP, THE SAM TRAINING CENTER, AND INSTRUMENTATION SITES 1, 2, 3, 4, 6, AND 7. NO SIGNIFICANT CHANGE IS NOTED AT THESE FACILITIES SINCE MISSION

[REDACTED], EXCEPT AT INSTRUMENTATION SITE 2 WHERE A DARK PATTERN IS NOW VISIBLE ON THE TOP OF THE DOME-SHAPED ENVIRONMENTAL SHELTER ON THE 135- BY 125-FOOT BUILDING -- POSSIBLY INDICATING AN OPENING IN THE SHELTER. THE BUILDING TRIAD AREA AT SITE 2 REMAINS UNCHANGED SINCE MISSION

25X1D

25X1D

[REDACTED]. THE ANTENNA FACE AT THE HEN HOUSE ANTENNA REMAINS DARK IN TONE AS ON MISSION [REDACTED] CLOUDS PRECLUDE IDENTIFICATION OF ANY AIRCRAFT AT THE 16,500 FT DIRT STRIP. SAM TRAINING CENTER -- IDENTIFICATION ONLY. LAUNCH COMPLEXES A AND B AND POSSIBLE INSTRUMENTATION SITE 13 ARE NOT OBSERVED.

25X1D

25X1A

[REDACTED] MOSCOW GUIDED MSLE ENGINE PLT KHMKI 456 UR 5554N 03727E

PLANT 456 PLANT AND TEST AREAS -- NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1D

TEST AREA NW (POSSIBLY RELATED TO PLANT 301) -- A NEWLY IDENTIFIED THIRD VERTICAL TEST STAND POSSIBLY STILL UNDER CONSTRUCTION IS LOCATED NORTH OF THE PREVIOUSLY-IDENTIFIED TEST STANDS. THIS STAND HAS A GREATER HORIZONTAL CROSS-SECTION THAN OTHER STANDS AND A POSSIBLE CRANE IS ATOP ITS TOWER.

TEST AREA EAST (POSSIBLY RELATED TO PLANT 293) -- THE AREA CONTAINS A NEWLY IDENTIFIED PROBABLE VERTICAL TEST STAND AND SUPPORT BUILDINGS. DISCOLORATION

25X1

TOP SECRET

25X1

25X1

TOP SECRET
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25X1

25X1D

OF ROAD THROUGH THE BLAST AREA MAY INDICATE
TEST ACTIVITY. THE ROAD WAS ALSO DISCOLORED ON
MISSION [REDACTED]

25X1D

THIS MISSION TOGETHER WITH MISSION [REDACTED] PROVIDES
BEST COVERAGE TO DATE.

25X1D

(ATTACHMENT 1)

25X1A

[REDACTED] MOSCOW GM PLT & EXPMT STA KALININGRAD 88 UR 5555N 03748E

25X1D

CENTRAL ARTILLERY DESIGN BUREAU -- NO SIGNIFICANT
CHANGE SINCE MISSION [REDACTED] EXCEPT FOR THE
IDENTIFICATION OF A HIGH-BAY SECTION ON A
SHOP-TYPE BUILDING.

25X1D

AREA A -- NO APPARENT CHANGE SINCE MISSION [REDACTED]

25X1D

AREA B -- NO SIGNIFICANT CHANGE SINCE MISSION [REDACTED]
EXCEPT FOR THE ADDITION OF A HIGH-BAY SECTION
TO A SHOP-TYPE BUILDING AND TRENCHING TO INDICATE
THAT THE GROUP OF BUILDINGS AT THE SW EDGE OF
AREA IS STILL UNDER CONSTRUCTION AND THAT A
LARGE AMOUNT OF EXPANSION IS IN PROGRESS.
POSSIBLE OPEN STORAGE OF LONG, NARROW SHIPPING
CRATES, CYLINDERS, OR VEHICLES IS NOTED.
NO TEST STANDS OBSERVED ON BEST PHOTOGRAPHY TO DATE.

25X1D

25X1A

[REDACTED] RYBINSK AIRCRAFT ENGINE PLANT 36 UR 5803N 03849E

NO ROCKET ENGINE TEST FACILITIES OBSERVED WITHIN
35 NM NORTH, SOUTH, OR WEST ON GOOD QUALITY
PHOTOGRAPHY. AREA EAST IS NOT COVERED. NO
MISSILES OR MISSILE HANDLING EQUIPMENT OBSERVED
WITHIN THE PLANT AREA.

25X1D

25X1

25X1

25X1

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TOP SECRET

25X1

25X1A

TBILISI AIRFRAME PLANT 31 UR 4140N 04452E

25X1D

THE RECENTLY ENLARGED BUILDING REPORTED ON MISSION [] HAS BEEN ROOFED, BUT CONSTRUCTION CONTINUES. ONE SMALL BUILDING HAS BEEN ADDED IN THE NE SECTION OF THE PLANT SINCE MISSION [] NO AIRCRAFT OR MISSILE ACTIVITY OR EQUIPMENT IDENTIFIED.

25X1D

25X1D

25X1A

HSI-AN AIRFRAME PLANT YEN-LIANG AF CH 3439N 10915E

NO PROGRESS APPEARS TO HAVE BEEN MADE ON 2 OF 3 BUILDINGS UNDER CONSTRUCTION ON [] BUT THE BUILDING IN THE CENTER OF THE PLANT AREA WHICH HAD ONLY FOUNDATION FOOTINGS VISIBLE NOW APPEARS TO BE IN THE FINAL STAGES OF CONSTRUCTION. A TAXIWAY HAS BEEN BUILT FROM THE PLANT TO NEARBY YEN-LIAN AIRFIELD. THE PLANT IS RAIL-CONNECTED TO HSIAO 22 NM SW. IMAGE QUALITY PRECLUDES IDENTIFICATION OF AIRCRAFT OR MISSILE COMPONENTS.

25X1C

25X1D

25X1A

KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24 UR 5312N 05017E

THE PLANT SHOWS SIGNIFICANT EXPANSION. A NEW LARGE ASSEMBLY/MACHINE SHOP IN THE NW CORNER OF THE PLANT HAS BEEN COMPLETED SINCE MISSION [] A NEW POSSIBLE MACHINE/WORKSHOP IS UNDER CONSTRUCTION IMMEDIATELY NE OF THE NEW ASSEMBLY/MACHINE SHOP.

25X1D

25X1D

25X1A

KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC UR 4819N 04016E

NO APPARENT CHANGE SINCE MISSION []

25X1D

THE FACILITY CANNOT BE CONFIRMED OR NEGATED DUE TO POOR IMAGE QUALITY.

25X1

25X1

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TOP SECRET

25X1
25X1

25X1D

25X1A

MAKINSK SUSPECT SSM AREA UR 5234N 07026E

NO NEW SSM ACTIVITY OBSERVED WITHIN THE CLOUD-FREE
PORTIONS OF THE 50-NM RADIUS.

25X1D

25X1A

VORONEZH SUSPECT SSM AREA UR 5139N 03911E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS
OF 50-NM SEARCH AREA. EASTERN ONE-THIRD NOT
COVERED.

25X1D

25X1A

KRASNAYA GORBATKA SUSPECT SSM AREA UR 5553N 04146E

NO SSM-RELATED ACTIVITY OBSERVED IN CLOUD-FREE
AREAS WITHIN A 50-NM RADIUS. SEARCH AREA
APPROXIMATELY 70 PERCENT CLOUD COVERED.

25X1D

25X1A

ZAKOPYTE SUSPECT SSM AREA UR 5138N 03020E

NO NEW SSM-RELATED ACTIVITY OBSERVED WITHIN A
50-NM RADIUS.

25X1D

25X1A

NOVOSTROYKA SUSPECT SSM AREA UR 5619N 03803E

NO NEW SSM ACTIVITY OBSERVED IN WESTERN TWO-THIRDS
OF 50 NM-RADIUS. EASTERN ONE-THIRD NOT COVERED.

25X1D

25X1

25X1

25X1
25X1

25X1

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TOP SECRET

25X1A

ROMNY SUSPECT SSM AREA UR 5044N 03328E

NO SSM-RELATED ACTIVITY WITHIN A 50-NM RADIUS
WEST OF ROMNY. MAJOR PORTION OF EASTERN HALF
OF SEARCH AREA NOT COVERED.

25X1D

AN AREA OF NEW CONSTRUCTION, CONTAINING SEVERAL
BUILDINGS AND SERVED BY A RAIL SPUR UNDER
CONSTRUCTION, IS IDENTIFIED. AN EXCAVATION
WITH NO DEFINITE PATTERN IS LOCATED ABOUT ONE
MILE NORTH OF THE BUILDINGS AND 45 NM SSW OF
ROMNY AT 50-02N 033-07E. THERE WAS NO ACTIVITY IN
THIS AREA ON MISSION

25X1D

25X1A

ALEYSK SUSPECT SSM AREA UR 5229N 08247E

ONLY NORTHERN HALF OF SEARCH AREA COVERED. AREA
IS 60 PERCENT CLOUD-COVERED. NO SSM ACTIVITY
OBSERVED.

25X1D

25X1A

VLADIMIR SUBMARINE BASE UR 4355N 13528E

HAZE, CLOUDS, AND POOR IMAGE QUALITY PRECLUDE
DETAILED INTERPRETATION.

25X1D

VESSELS -- NONE OBSERVED.

25X1A

VLADIVOSTOK NAVAL BASE AND SHIPYARD 202 UR 4306N 13156E

HAZE, OBLIQUITY AND POOR IMAGE QUALITY PRECLUDE
IDENTIFICATION OF ANY MISSILE-RELATED ACTIVITY
AT THE SHIPYARD.

APPROXIMATELY 100 UNIDENTIFIED VESSELS INCLUDING ONE
POSSIBLE CL ARE OBSERVED IN GOLDEN HORN BAY.
APPROXIMATELY 25 OTHER UNIDENTIFIED VESSELS ARE
OBSERVED IN ADJACENT WATERS, INCLUDING ONE POSSIBLE

25X1

25X1

25X1

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25X1

SS AT ULIS BAY.

25X1D NO NAVAL GM STORAGE, SUBMARINE BASES, OR NUCLEAR
 WEAPONS STORAGE AREAS OBSERVED IN SMALL PORTION
 OF SEARCH AREA VISIBLE.

25X1A

MOSCOW SUSPECT ABM AREA UR 5545N 03737E

ALL SAM INSTALLATIONS IN THE MOSCOW DEFENSE
 SYSTEM ARE COVERED BY GOOD QUALITY CLOUD-FREE
 PHOTOGRAPHY. THE EASTERNMOST EDGE OF THE SEARCH
 AREA (APPROXIMATELY 15 PERCENT) WAS NOT COVERED.
 NO SARY SHAGAN OR LENINGRAD-TYPE ABM INSTALLATIONS
 ARE OBSERVED IN THE VISIBLE PORTION OF THE
 SEARCH AREA, WITH THE EXCEPTION OF THOSE REPORTED
 SEPARATELY.

25X1D APPROXIMATELY 75 PERCENT OF THE HERRINGBONE
 LAUNCH SITES SHOW SIGNS OF ACTIVITY -- RANGING
 FROM VERY MINOR EARTH SCARS IN MANY CASES TO
 SUBSTANTIAL GROUND SCARRING AT SEVERAL SITES.

25X1A

MOSCOW SAM SITE E05-1 UR 5614N 03835E

AN UNIDENTIFIED STRUCTURE IS VISIBLE ADJACENT AND
 PARALLEL TO THE END OF THE LARGE TRIAD BUILDING
 OPPOSITE THE 2 SMALLER BUILDINGS. THIS STRUCTURE
 IS SIMILAR IN APPEARANCE AND LOCATION TO STRUCTURES
 SEEN AT MOSCOW SITES E15-1, E24-1, E33-1, AND
 SITE 13, SARY SHAGAN ANTIMISSILE TEST CENTER.

25X1D AN UNIDENTIFIED RAISED OBJECT IS PRESENT ON THE REAR
 PORTION OF THE ROOF OF THE LARGE TRIAD BUILDING.
 LINEAR UNIDENTIFIED ACTIVITY IS PRESENT ON THE ROOF
 OF THE NW SMALL TRIAD BUILDING. NO RAISED OBJECTS ARE
 VISIBLE ON THE ROOF OF THE SE SMALL TRIAD BUILDING.

25X1

25X1

25X1

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25X1A

[REDACTED] MOSCOW SAM SITE E33-1 UR 5620N 03648E

25X1D

ANNULAR STRUCTURES ARE NOW VISIBLE ON THE ROOF OF EACH OF THE 3 BUILDINGS IN THE TRIAD. THE STRUCTURE ON THE LARGE BUILDING APPEARS TO BE NOTICEABLY HIGHER THAN THOSE ON THE SMALLER BUILDINGS. THE PROBABLE PASSAGEWAY OR CONDUIT REPORTED TO THE REAR OF THE LARGE BUILDING ON MISSION [REDACTED] IS NOT VISIBLE ON THIS MISSION.

25X1D

25X1D

A LARGE GROUND SCAR ON THE NE SIDE OF THE HERRINGBONE REPORTED ON MISSION [REDACTED] NOW CONTAINS 2 PARALLEL WALLS OR REVETMENTS. ACTIVITY CONTINUES AT ANOTHER GROUND SCAR IMMEDIATELY OUTSIDE THE TRIAD SECURITY FENCING.

25X1A

[REDACTED] MOSCOW SAM SITE E15-1 UR 5509N 03822E

25X1D

NO SIGNIFICANT CHANGE DISCERNIBLE IN THE TRIAD FACILITIES SINCE [REDACTED] UNIDENTIFIED

25X1D

STRUCTURE TO REAR OF LARGE BUILDING IN TRIAD OBSERVED ON [REDACTED] CAN NOT BE DETECTED. IN

25X1D

THE SE QUADRANT OF THE HERRINGBONE ARE 2 LINEAR EXCAVATIONS LOCATED AT ADJACENT SA-1 LAUNCH

POSITIONS. THE EXCAVATIONS ARE AT A 45 DEGREE ANGLE TO THE LAUNCHER SERVICE ROAD. ONE WAS

25X1D

PRESENT ON [REDACTED] THE OTHER HAS APPARENTLY BEEN DUG SINCE. SEVERAL OTHER POINTS OF UNIDENTIFIED

SCARRING ACTIVITY ARE OBSERVED ELSEWHERE ON THE HERRINGBONE. A PROBABLE DRIVE-THROUGH STRUCTURE

OVER ONE LAUNCH POSITION AT THIS SITE IDENTIFIED ON [REDACTED] IS STILL PRESENT.

25X1D

BONUS 1. YAZLOVCHIK FIXED FIELD MRBM LAUNCH SITE UR 5005N 02502E

A FIXED FIELD MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 6.3 NM WEST OF BRODY MRBM LAUNCH SITE 1 AND 3.7 NM SW OF YAZLOVCHIK. THERE WAS NO SITE AT THIS LOCATION ON MISSION [REDACTED] IT

25X1D

25X1

25

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TOP SECRET

25X1

25X1

TOP SECRET

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25X1

25X1D

CONSISTS OF 4 PAD-LIKE CLEARINGS. ONE CLEARING WAS PRESENT ON MISSION [REDACTED] WITH THE INITIAL SCARRING FOR ANOTHER. THE CLEARINGS, ARRANGED IN A RECTANGULAR PATTERN, HAVE AN AZIMUTH SIMILAR TO THAT OF THE BRODY MRBM LAUNCH SITES. NO ACTIVITY IS VISIBLE IN THE AREA.

25X1D

BONUS 2. SHCHITNO FIXED FIELD MRBM LAUNCH SITE UR 5243N 02458E

A NEWLY IDENTIFIED FIXED FIELD TYPE MRBM IS LOCATED IN A WOODED AREA 11 NM SE OF RUZHANY MRBM LAUNCH SITE 1 AND 4 NM SSE OF SHCHITNO AND CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED LIKE ONE OF THE KRUSHANY MRBM LAUNCH SITES. NO ACTIVITY IS APPARENT AT THE INSTALLATION.

25X1D

BONUS 3. VASILISHKI FIXED FIELD MRBM LAUNCH SITE UR 5344N 02456E

A FIXED FIELD TYPE MRBM LAUNCH SITE HAS BEEN NEWLY IDENTIFIED IN A WOODED AREA 14.5 NM WSW OF LIDA MRBM LAUNCH SITE 1 AND 4 NM SE OF VASILISHKI. IT CONSISTS OF 4 INTERCONNECTED PAD-LIKE CLEARINGS ORIENTED SIMILAR TO THOSE OF THE LIDA MRBM SITES. AN OBJECT IS DISCERNIBLE IN EACH OF THE CLEARINGS. FOUR PROBABLE READY TENTS OR BUILDINGS ARE SITUATED IN A LARGE CLEARING ALONG THE ACCESS ROAD. AN OCCUPIED TENT AREA IS IMMEDIATELY NORTH OF THE SITE.

25X1D

BONUS 4. KYAKHTA SAM SITE UR 5020N 10626E

NEWLY IDENTIFIED COMPLETED SA-2 SAM SITE IS LOCATED 1.5 NM SOUTH OF KYAKHTA AT 50-20-10N 106-26-50E.

25X1D

25X1

25X1

**Air
Facilities**

25X1

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25X1
25X1

25X1A

AIR FACILITIES

MIRGOROD AIRFIELD UR 4956N 03339E

AIRCRAFT -- 2 PROBABLE AND ONE POSSIBLE BLINDER, 26 BADGER, AND ONE SMALL STRAIGHT-WING ON HARDSTANDS, AND ONE MEDIUM STRAIGHT-WING ON GRASS NEAR SW LOOP TAXIWAY.

25X1D

25X1A

OSTROV/GOROKHOVKA AIRFIELD UR 5718N 02826E

25X1D

NO APPARENT CHANGE SINCE MISSION

AIRCRAFT -- 31 BADGER, 2 MEDIUM STRAIGHT-WING, AND 2 MEDIUM PROBABLE TWIN ENGINE STRAIGHT-WING ON HARDSTANDS ALONG TAXIWAY.

25X1D

25X1A

WU-KUNG AIRFIELD CH 3417N 10815E

CONSTRUCTION AT THE AIRCRAFT PLANT SOUTH OF THE AIRFIELD CONTINUES. THE PLANT APPEARS TO BE NEARING COMPLETION.

25X1D

AIRCRAFT -- 13 BULL AND ONE BADGER.

25X6

25X1

**Nuclear
Energy**

25X2

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**Naval
Activity/
Ports**

25X1

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TOP SECRET

25X1
25X1

25X1A

NAVAL ACTIVITY/PORTS

NIKOLAYEV SHIPYARD NOSENKO 444 UR 4657N 03159E

25X1D

NO APPARENT CHANGE IN FACILITIES SINCE MISSION

VESSELS UNDER CONSTRUCTION ON THE BUILDING WAYS
INCLUDE ONE 535 BY 90 FT, TWO 340 BY 50 FT,
ONE 390 BY 70 FT, AND ONE 490 BY 80 FT. SEVEN
VESSELS ARE LOCATED IN THE BASIN, INCLUDING
TWO 310 BY 45 FT, TWO 440 BY 70 FT, AND THREE
270 BY 40 FT. ALL DIMENSIONS ARE APPROXIMATE.
NONE OF THESE APPEAR TO BE NAVAL VESSELS.
NO SUBMARINE FACILITIES OBSERVED.

25X1D

25X1A

NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445 UR 4659N 03201E

NO APPARENT CHANGE IN FACILITIES SINCE
MISSION

25X1D

VESSELS -- ONE PROBABLE FLOATING DRYDOCK.

25X1D

**Electronics/
Communications**

25X1
25X1

25X1

TOP SECRET
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25X1A

[] YU-MEN, SUSPECT INSTRUMENTATION SITE CH 4017N 09712E

NO INSTRUMENTATION FACILITIES OBSERVED WITHIN
25-NM RADIUS.

25X1D

25X1A

[] MOSCOW, SUSPECT AMM PHASED ARRAY RADAR UR 5529N 03641E

CONSTRUCTION CONTINUES ON THE INVERTED V FRAME. THE CONSTRUCTION CRANE IS NOW POSITIONED IN FRONT AND AT THE BASE OF THE NNW FACE. CONSTRUCTION MATERIALS ARE STACKED IN OPEN STORAGE IN CLEARED AREAS FRONTING THE NNW AND SSE FACES. A LIGHT COLORED TOPPING IS BEING APPLIED IN RECTANGULAR PATCHES TO THE PLATFORM ROOF AT ITS WSW END AND ADDITIONAL BLACK TOPPING IS BEING APPLIED TO THE ROOF OF THE CONTROL BUILDING. A POSSIBLE ENTRANCE WHICH APPEARED AS A FOUNDATION ON MISSION [] IS BEING ADDED AT THE WSW END AND ON THE NORTH SIDE OF THE CONTROL BUILDING. IT IS NOW CONSTRUCTED TO ROOF HEIGHT. AN ADDITIONAL RECTANGULAR SUPPORT BUILDING HAS BEEN ADDED IN THE STORAGE YARD.

25X1D

THE SUSPECT AMM PHASED ARRAY APPARENTLY WILL HAVE AN INDENTED FACE ON ITS NNW SIDE AND PROBABLY THE SSE SIDE. ADDITIONAL FRAMING MEMBERS HAVE BEEN ADDED AT BOTH ENDS OF THE ARRAY AND ACROSS THE TOP MAKING THE FACE OF THE ARRAY INSET. THE SSE FACE OF THE ANTENNA WILL APPARENTLY BE IDENTICAL TO THE NNW.

NO SIGNIFICANT CHANGES ARE OBSERVED IN THE SUPPORT AREAS EXCEPT FOR ADDITIONAL BLACK-TOPPING ON THE ROOFS OF SOME BUILDINGS IN OPERATIONAL AREA B.

25X1D

BONUS 1. TA-TUNG VLF ANTENNA CH 3957N 11316E

A NEWLY IDENTIFIED LARGE RECTANGULAR VLF ANTENNA IS

25X1

25X1
25X1

25X1

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LOCATED 8 NM SOUTH OF TA-TUNG.

25X1D

THE ANTENNA IS NEARLY IDENTICAL TO THE VLF ANTENNA
WEST OF KHABAROVSK. IT APPEARS COMPLETE AND IS
PROBABLY OPERATIONAL. THIS INSTALLATION WAS
REPORTED ON MISSION [REDACTED] AS YAO-CHUANG AREA,
UNIDENTIFIED INSTALLATION.

25X1D

(ATTACHMENT 4)

[REDACTED]

25X1

25X1

**Military
Activity**

25X1

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25X1
25X1

25X1A

MILITARY ACTIVITY

MAN-CHOU-LI MILITARY ACTIVITY CH 4935N 11726E

NO CHANGE OBSERVED IN AREA 3 OR IN CLOUD-FREE
PORTIONS OF AREAS 1 AND 2. NO SIGNIFICANT NEW
ACTIVITY NOTED IN POSSIBLE BARRACKS CONSTRUCTION
AREA ON SOVIET SIDE OF THE BORDER.

25X1D

25X1

25X1

**Other
Activity**

25X1

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TOP SECRET

25X1
25X1

OTHER ACTIVITY

25X1A

HSIAO-CHIA-CHI NATL DEF LINE CONSTR CH 4713N 13343E

ONLY EASTERN PORTION OF SEARCH AREA COVERED.
NO MILITARY ACTIVITY NOTED IN CLOUD-FREE AREAS.

25X1D

25X1D

25X1

25X1

TOP SECRET
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THIS SECTION CONTAINS A COMPOSITE LIST, BY TARGET NUMBER, OF ALL COMOR TARGETS REVIEWED DURING THE SCAN OF MISSION 1007-1. THE ROMAN NUMERAL UNDER THE OAK COLUMN INDICATES THE PART OF OAK 1007-1 IN WHICH THE TARGET WAS REPORTED.

25X1A

<u>COMOR</u>	<u>INSTALLATION NAME</u>	<u>CTY</u>	<u>COORDINATES</u>	<u>OAK</u>
	YURYA ICBM COMPLEX	UR	5903N 04919E	I
	TYURATAM MISSILE TEST CENTER	UR	4550N 06318E	I
	YOSHKAR-OLA ICBM COMPLEX	UR	5634N 04803E	II
	SVOBODNYI ICBM COMPLEX	UR	5146N 12807E	I
	DROVYANAYA ICBM COMPLEX	UR	5132N 11301E	II
	KOSTROMA ICBM COMPLEX	UR	5746N 04101E	II
	SHADRINSK ICBM COMPLEX	UR	5608N 06340E	I
	TEYKOVO ICBM COMPLEX	UR	5652N 04035E	II
	TYUMEN ICBM COMPLEX	UR	5652N 06553E	I
	YEDROVO ICBM COMPLEX	UR	5751N 03341E	II
	NOVOSIBIRSK ICBM COMPLEX	UR	5516N 08257E	I
	KOZELSK ICBM COMPLEX	UR	5357N 03548E	II
	DLOVYANNAYA ICBM COMPLEX	UR	5048N 11550E	II
	MAZANKA MRBM LAUNCH SITE	UR	4454N 03420E	I
	SLEDYUKI MRBM LAUNCH SITE	UR	5341N 03020E	II
	BORKHOV MRBM LAUNCH SITE 1	UR	5218N 03043E	II
	GRESK MRBM LAUNCH SITE 1	UR	5314N 02742E	I
	KARA-BABAU IRBM LAUNCH SITE 2	UR	4431N 07758E	II
	ZHITOMIR MRBM LAUNCH SITE 1	UR	5004N 02816E	II
	KOZHANOVICH I MRBM LAUNCH SITE 1	UR	5210N 02751E	II
	URECHYE MRBM LAUNCH SITE	UR	5311N 02758E	I
	KURDZHIPSKAYA MRBM LAUNCH SITE	UR	4431N 04000E	II
	SMORGON IRBM LAUNCH SITE 2	UR	5426N 02618E	I
	RUDNYA ZLOTINSKAYA MRBM LAUNCH SITE	UR	5104N 02807E	II
	SOKAL MRBM LAUNCH SITE 3	UR	5020N 02426E	II
	REDKINO MRBM LAUNCH SITE	UR	5724N 02826E	II
	SHIRVANSKAYA MRBM LAUNCH SITE	UR	4425N 03954E	II
	SEMOVKA IRBM LAUNCH SITE 2	UR	4753N 03057E	I
	VAINODE IRBM LAUNCH SITE	UR	5628N 02150E	I
	KARA-BABAU IRBM LAUNCH SITE 3	UR	4431N 07743E	II
	ACHKHUY-MARTAN MRBM LAUNCH SITE	UR	4310N 04511E	I
	POSTAVY MRBM LAUNCH SITE 2	UR	5506N 02700E	I
	SOVETSKAYA GAVAN POSS MRBM LAUNCH SITE	UR	4904N 14007E	I
	KAPUSTIN YAR/VLADIMIROVKA MSL TEST CTR	UR	4835N 04545E	II
	SARY-SHAGAN ANTIMISSILE TEST CENTER	UR	4602N 07334E	II

25X1

25X1

TOP SECRET

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25X1
25X1

25X1A

SHUANG-CHENG-TZU MISSILE TEST CENTER	CH 4107N 10020E	I
SHUANG-CHENG-TZU 350 NM IMPACT AREA	CH 4024N 09225E	I
SHUANG-CHENG-TZU 650 NM IMPACT AREA	CH 4041N 08600E	I
MOSCOW GUIDED MSL ENGINE PLT KHIMKI 456	UR 5554N 03727E	II
MOSCOW GM PLT & EXPMT STA KALININGRAD 88	UR 5555N 03748E	II
ZAGORSK ROCKET TEST FACILITY	UR 5627N 03812E	I
KURUMOKH ROCKET ENGINE TEST FACILITY	UR 5331N 04949E	I
KUYBYSHEV AIRFRAME PLANT STALIN 1	UR 5313N 05018E	I
VORONEZH ROCKET TEST FACILITY	UR 5134N 03908E	I
KAZAN AIRCRAFT ENGINE PLANT 16	UR 5551N 04907E	I
RYBINSK AIRCRAFT ENGINE PLANT 36	UR 5803N 03849E	II
TBILISI AIRFRAME PLANT 31	UR 4140N 04452E	II
HSI-AN AIRFRAME PLANT YEN-LIANG AF	CH 3439N 10915E	II
KUYBYSHEV AIRCRAFT ENGINE PLT FRUNZE 24	UR 5312N 05017E	II
KAMENSK-SHAKHTINSKIY PROB STAT TEST FAC	UR 4819N 04016E	II
KOSZALIN SUSPECT SAM AREA	PO 5410N 01618E	I
DOPIEWO SUSPECT SAM AREA	PO 5220N 01640E	I
BIEDRUSKO SUSPECT SAM AREA	PO 5233N 01657E	I
MAKINSK SUSPECT SSM AREA	UR 5234N 07026E	II
VORONEZH SUSPECT SSM AREA	UR 5139N 03911E	II
KRASNAYA GORBATKA SUSPECT SSM AREA	UR 5553N 04146E	II
ZAKOPYTE SUSPECT SSM AREA	UR 5138N 03020E	II
NOVOSTROYKA SUSPECT SSM AREA	UR 5619N 03803E	II
ROMNY SUSPECT SSM AREA	UR 5044N 03328E	II
ALEYSK SUSPECT SSM AREA	UR 5229N 08247E	II
SEVEROMORSK SUSPECT NAVAL MSL STORAGE	UR 6906N 03328E	I
SAYDA-GUBA SUBMARINE BASE	UR 6915N 03321E	I
OLENYA GUBA SUBMARINE BASE	UR 6913N 03323E	I
POLYARNYY NAVAL BASE	UR 6912N 03328E	I
LITSA GUBA SUBMARINE BASE	UR 6926N 03224E	I
VLADIMIR SUBMARINE BASE	UR 4355N 13528E	II
ROSTA NAVAL BASE & SHIPYARD SEVMORPUT	UR 6902N 03304E	I
VLADIVOSTOK NAVAL BASE AND SHIPYARD 202	UR 4306N 13156E	II
URA GUBA NAVAL BASE	UR 6920N 03249E	I
PALA GUBA NAVAL BASE & SHIP REPAIR YARD	UR 6912N 03326E	I
SOVETSKAYA GAVAN NVL BASE & SHIPYARD 263	UR 4858N 14017E	I
MOSCOW SUSPECT ABM AREA	UR 5545N 03737E	II
ANTIPINSKOYE SAM ACTIVITY	UR 5254N 11332E	I
BRATSK, SUSPECT ABM AREA	UR 5654N 10030E	I
ASTRAKHAN POSSIBLE ABM RADAR	UR 4620N 04801E	I
MOSCOW SAM SITE E05-1	UR 5614N 03835E	II
MOSCOW SAM SITE E33-1	UR 5620N 03648E	II
MOSCOW SAM SITE E24-1	UR 5521N 03629E	I
MOSCOW SAM SITE E15-1	UR 5509N 03822E	II
DOLON AIRFIELD	UR 5032N 07912E	I
SIAULIAI AIRFIELD	UR 5553N 02323E	I

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UKRAINA AIRFIELD	UR 5110N 12826E	I
BORZYA AIRFIELD NORTHWEST	UR 5024N 11623E	I
BARANOVICHI AIRFIELD	UR 5306N 02603E	I
MINSK/MACHULISHCHE AIRFIELD	UR 5347N 02734E	I
OLENEGORSK AIRFIELD	UR 6809N 03327E	I
BYKHOV AIRFIELD	UR 5331N 03012E	I
MOZDOK AIRFIELD	UR 4347N 04436E	I
PRILUKI AIRFIELD	UR 5034N 03219E	I
ORSHA AIRFIELD SOUTHWEST	UR 5426N 03018E	I
RYAZAN/DYAGILEVO AIRFIELD	UR 5439N 03935E	I
NEZHIN AIRFIELD	UR 5105N 03152E	I
GOMEL/PRIBYTKI AIRFIELD	UR 5218N 03110E	I
ALEKSEYEVKA AIRFIELD	UR 4915N 14014E	I
MIRGOROD AIRFIELD	UR 4956N 03339E	II
USSURIYSK/VOZDVIHENKA AIRFIELD	UR 4355N 13156E	I
KALININ AIRFIELD	UR 5649N 03545E	I
SOLTSY AIRFIELD	UR 5808N 03020E	I
ARTEM AIRFIELD NORTH	UR 4323N 13209E	I
OSTROV/GOROKHOVKA AIRFIELD	UR 5718N 02826E	II
KAZAN AIRFRAME PLANT GORBUNOV 22	UR 5552N 04907E	I
RAMENSKOYE AIRCRAFT EXPERIMENTAL PLANT	UR 5535N 03807E	I
KUYBYSHEV AIRFRAME PLANT LENIN 18	UR 5313N 05019E	I
WU-KUNG AIRFIELD	CH 3417N 10815E	II

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PECHENGA NAVAL BASE LINAKHAMARI	UR 6939N 03122E	I
LAKE ISSYK KUL HYDRODYNAMICS EXP STA N	UR 4235N 07700E	I
NIKOLAYEV SHIPYARD NOSENKO 444	UR 4657N 03159E	II
NIKOLAYEV SHPYD NORTHERN 61 KOMMUNA 445	UR 4659N 03201E	II

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YU-MEN, SUSPECT INSTRUMENTATION SITE	CH 4017N 09712E II
SIMFEROPOL TRACKING & COMMO CENTER	UR 4503N 03353E I
MOSCOW, SUSPECT AMM PHASED ARRAY RADAR	UR 5529N 03641E II
MI-SHAN MILITARY AREA	CH 4532N 13152E I
MAN-CHOU-LI MILITARY ACTIVITY	CH 4935N 11726E II
HSI-AN COMPLEX	CH 3417N 10857E I

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Attachments

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ATTACHMENT 1



MOSCOW GUIDED MISSILE ENGINE PLANT KHIKMI 456, USSR.

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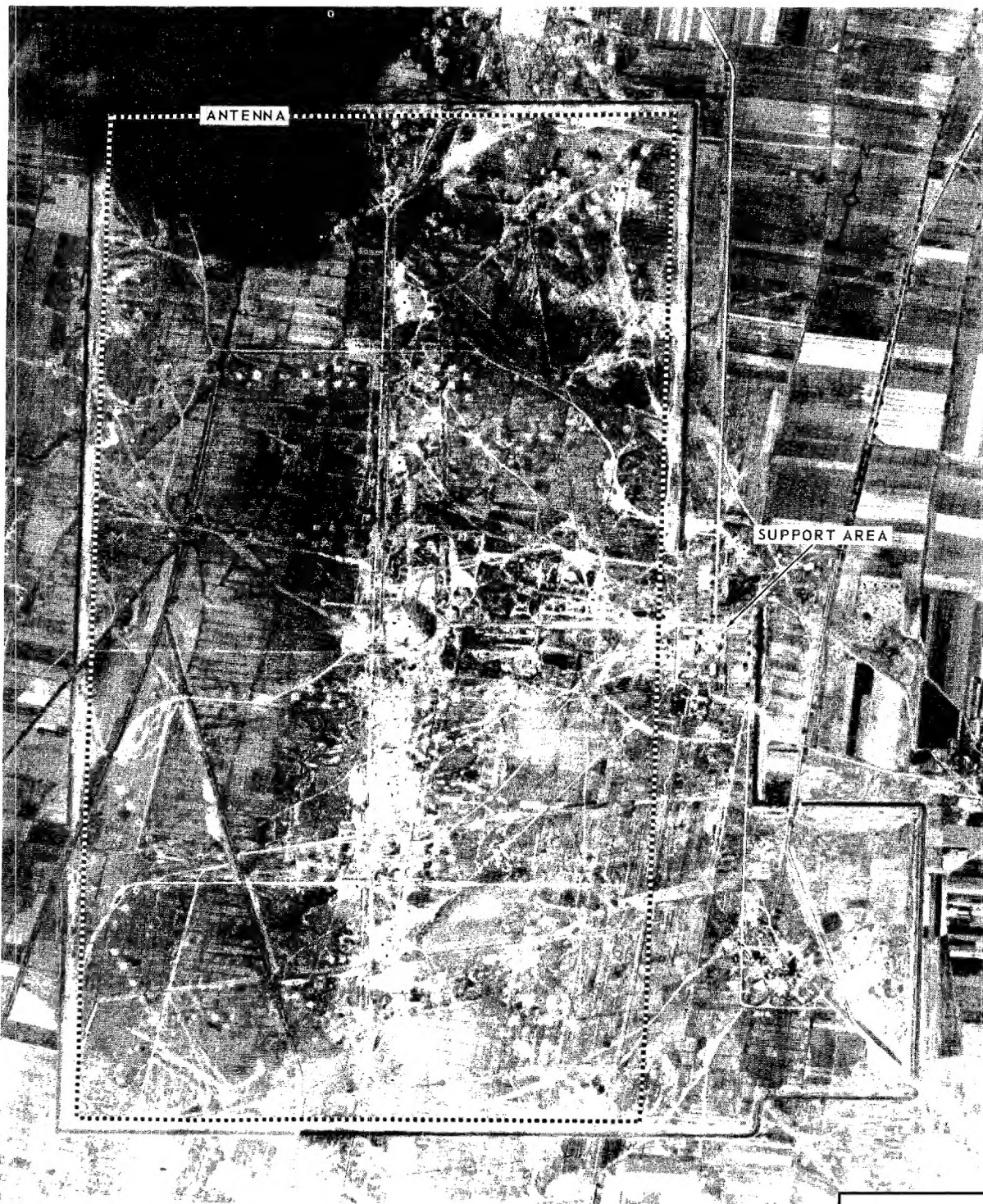
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VLF COMMUNICATIONS ANTENNA, TA-TUNG AREA, CHINA.

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